```
1
2   print ("i am from plg_SSH.py")
3
4
5   from a0_items import *
6   import locale
7
8
9   ##########################################################################################
    ##################################
10
11  def SSH_into_server (server_ip, SSH_username, SSH_password):
12
13      try:
14
15          client = paramiko.client.SSHClient()
16          client.set_missing_host_key_policy(paramiko.AutoAddPolicy())
17          client.connect(server_ip.strip(), username=SSH_username.strip(), password=
            SSH_password.strip())
18
19          print (server_ip + ' is connected \n')
20          return client
21
22      except:
23
24          print (server_ip + ' NOT connected \n')
25
26
27
28
29
30
31  #https://stackoverflow.com/questions/62656579/why-im-getting-unicodeencodeerror-charmap-c
    odec-cant-encode-character-u2
32  def test ():
33
34      client1 = SSH_into_server (server_ip='173.208.150.146', SSH_username='root',
        SSH_password='Vgd9x0ay6i7p!')
35      _stdin_1, _stdout_1,_stderr_1 = client1.exec_command("df")
36      _stdin_2, _stdout_2,_stderr_2 = client1.exec_command("lsblk")
37
38      #encoding = locale.getpreferredencoding()
39
40      print(_stdout_1.read().decode())
41      print ('\n')
42      #print(_stdout_2.read().decode(encoding))
43      print(_stdout_2.read().decode('ascii', 'ignore'))
44
45      client1.close()
46
47  #test()
48
49
50
51
52
53  ##########################################################################################
    ##########################################
54  #### SFTP
55  ##########################################################################################
    ##########################################
56
57  # https://rajansahu713.medium.com/sftp-files-transfer-using-python-59b4cead090a
58
59  def get_items_via_SSH (server_ip, SSH_username, SSH_password):
60
61      #get files of remote server
```

```
    client1 = SSH_into_server (server_ip, SSH_username, SSH_password)

    sftp = client1.open_sftp()

    LIST_item = sftp.listdir()
    print (sftp.listdir())

    return LIST_item

#get_items_via_SSH (server_ip='107.150.45.226', SSH_username='root',
SSH_password='Y4wxyopsvgu2!')



#SFTP create folder
def create_item_via_SSH (remote_file_path_name):

    #connection to SSH
    client1 = SSH_into_server (server_ip, SSH_username, SSH_password)

    sftp = client1.open_sftp()

    sftp.mkdir (remote_file_path_name)




#SFTP get
def download_item_via_SSH (local_file_path, remote_file_path):

    #connection to SSH
    client1 = SSH_into_server (server_ip, SSH_username, SSH_password)

    sftp = client1.open_sftp()

    sftp.get (remote_file_path, local_file_path)



#SFTP put
def upload_item_via_SSH (local_file_path, remote_file_path):

    #connection to SSH
    client1 = SSH_into_server (server_ip, SSH_username, SSH_password)

    sftp = client1.open_sftp()

    sftp.put (local_file_path, remote_file_path)




#SFTP remove
def remove_item_via_SSH (remote_file_path):

    #connection to SSH
    client1 = SSH_into_server (server_ip, SSH_username, SSH_password)

    sftp = client1.open_sftp()

    sftp.remove (remote_file_path)


```